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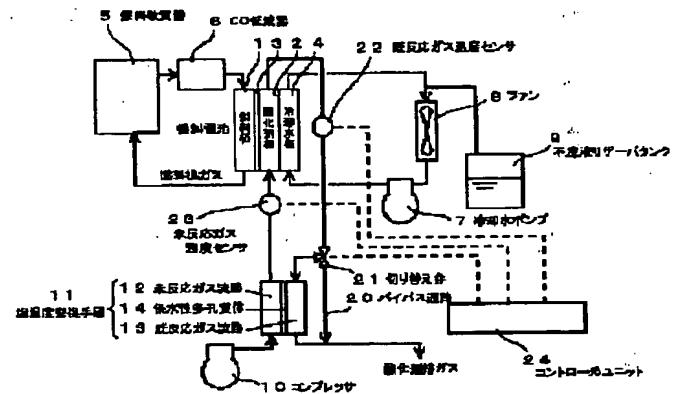
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TITLE : SOLID HIGH MOLECULAR FUEL CELL
SYSTEM



ABSTRACT : PROBLEM TO BE SOLVED: To provide a fuel cell system having high performance and capable of appropriately controlling the quantity of humidification by a temperature and humidity exchanging means.

SOLUTION: A bypass passage 20 for connecting an inlet and an outlet of a reacted gas flow passage 13 of a temperature and humidity exchanging means 11 is provided, and a selector valve 21 for switching to the bypass valve 20 and a reacted gas temperature sensor 22 are provided on a line from an oxidant pole 2 of the fuel cell to the reacted gas flow passage 13 of the temperature and humidity exchanging means 11, and a non-reaction gas temperature sensor 23 is provided on a line from a non-reaction gas flow passage 12 of the temperature and humidity exchanging means 11 to the oxidant pole 2 of the fuel cell. A control unit 24 for controlling the switching operation of the selector valve 21 on the basis of a result of the detection by both temperature sensors 22, 23 is provided so as to control the quantity of the reacted gas flowing to the temperature and humidity exchanging means 11, namely, quantity of the steam so as to control the quantity of humidification of the non-reaction gas.

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